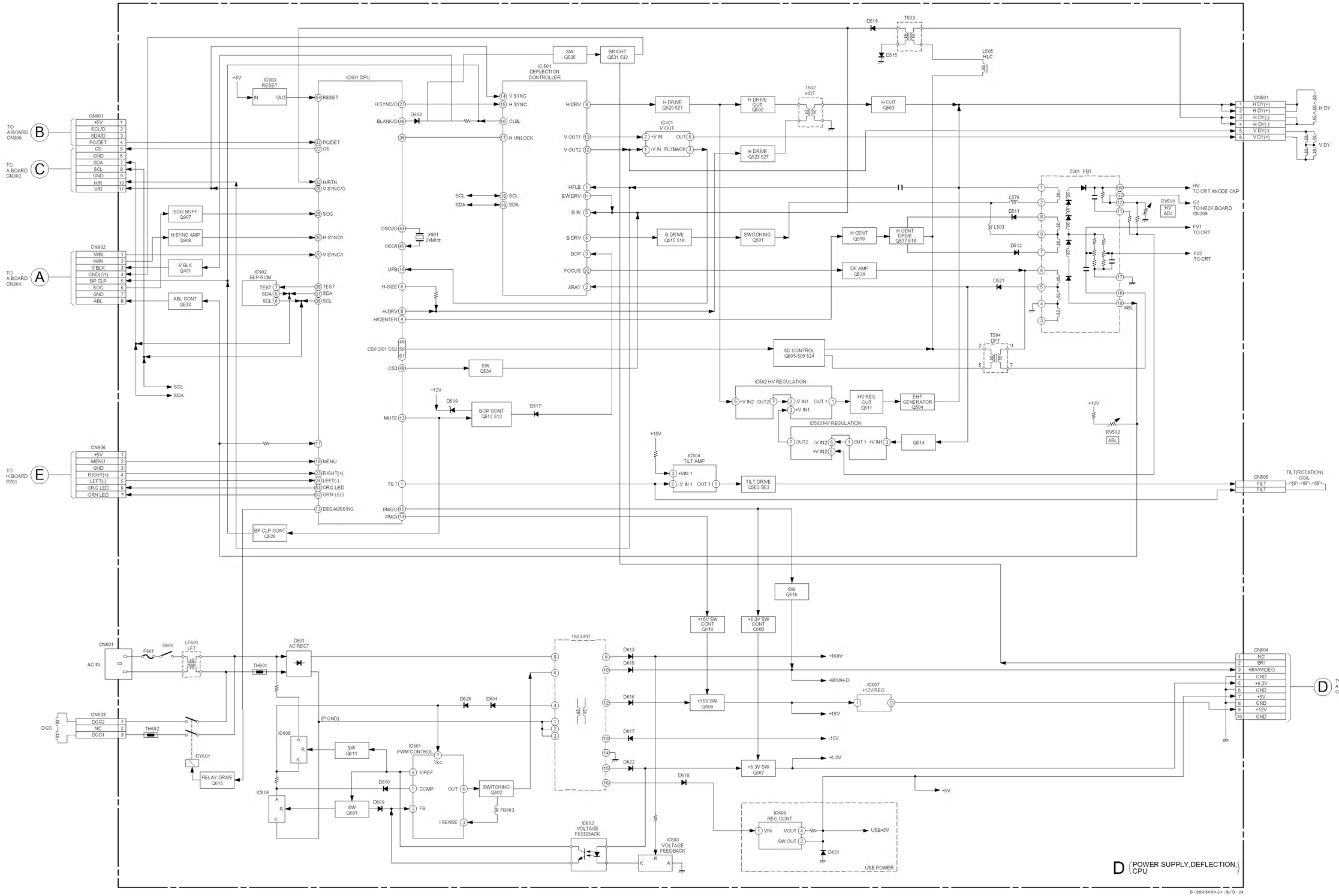

CN901
+5V
SCL/D
SDA/D
PC/DET
CS
GND
SDA
SCL
GND
H/R
V/R
TO A BOARD CN306
TO A BOARD CN303
CN902
V/IN
H/IN
V.BLK
GND(G1)
BP CLP
SOG
GND
ABL
TO A BOARD CN304
CN906
+5V
MENU
GND
RIGHT(+)
LEFT(-)
ORG LED
GRN LED
TO H BOARD P701
IC903 RESET
IC901 CPU
RESET
PC/DET
CS
H/RTN
V SYNC/O
SOG
H SYNC/I
V SYNC/I
TEST
SDA
SCL
MENU
RIGHT(+)
LEFT(-)
ORG LED
GRN LED
DEGAUSSING
SOG BUFF Q907
H SYNC AMP Q908
V BLK Q401
ABL CONT Q533
IC902 EEP ROM
BP CLP CONT Q526
H SYNC/O
BLANK/O
D903
OSCI/O
OSCI/I
X901 24MHz
UFB
H-SIZE
H-DRV
H/CENTER
CS0 CS1 CS2
CS3
SW Q534
MUTE
BOP CONT Q512 513
D509
D517
TILT
PMGO
PMGI
SW Q535
BRIGHT Q531 532
IC 501 DEFLECTION CONTROLLER
V SYNC
H SYNC
CLBL
H UNLOCK
SCL
SDA
H DRV
V OUT1
V OUT2
HFLB
EW DRV
B IN
B DRV
BOP
FOCUS
XRAY
IC401 V OUT
+V IN
-V IN
FLYBACK
H DRIVE Q520 521
H DRIVE Q523 527
H DRIVE OUT Q502
T502 HDT
H OUT Q503
D516
T503
D515
L505 HLC
B DRIVE Q515 516
SWITCHING Q501
H CENT Q519
H CENT DRIVE Q517 518
DF AMP Q530
SC CONTROL Q505-509 524
IC502 HV REGULATION
+V IN2
OUT2
-V IN1
OUT 1
+V IN1
HV REG OUT Q511
EHT GENERATOR Q504
IC503 HV REGULATION
-V IN2
+V IN2
Q614
+15V
IC504 TILT AMP
+VIN 1
-V IN 1
TILT DRIVE Q5E2 5E3
CN505
TILT
TILT(ROTATION) COIL
CN501
H DY(+)
H DY(+)
H DY(-)
H DY(-)
V DY(-)
V DY(+)
H DY
V DY
T501 FBT
L570
D511
L503
D512
D521
RV501 HV ADJ
HV TO CRT ANODE CAP
G2 TO NECK BOARD CN309
FV1 TO CRT
FV2 TO CRT
T504 DFT
RV502 ABL
+12V
SW Q616
+15V SW CONT Q610
+6.3V SW CONT Q608
CN601
AC IN
F601
S601
LF601 LFT
TH601
D601 AC RECT
CN603
DGC2
NC
DGC1
DGC
TH602
RY601
RELAY DRIVE Q615
T603 PIT
(P GND)
D626
D604
IC608
SW Q611
IC601 PWM CONTROL
Vcc
VREF
COMP
FB
I SENSE
OUT
SWITCHING Q602
FB603
D610
D609
SW Q601
IC606
IC602 VOLTAGE FEEDBACK
IC603 VOLTAGE FEEDBACK
D613
D615
D616
D617
D622
D618
+160V
+80V/H-D
+15V
-15V
+6.3V
+5V
+15V SW Q609
+6.3V SW Q607
IC607 +12V REG
IC609 REG CONT
VIN
VOUT
SW OUT
USB+5V
D631
USB POWER
CN504
NC
BRI
+80V/VIDEO
GND
+6.3V
GND
+5V
GND
+12V
GND
TO A BOARD CN305
D (POWER SUPPLY,DEFLECTION,CPU)
B-BB350B<J>-B/D-24

D
(USB CONTROL)

PUP0
PORT 0
L7B7 0.45μH
L7B8 0.45μH
R7C5 18 1/4W
R7C4 18 1/4W
L7E1 JW
L7D9 JW
R7D5 1.5k 1/4W
+3.3V
L7E5 JW
L7A8 1μH
C7C2 0.1
C7C1 0.1
P3
M3
R7D9 1k
R7D8 1k
USB+5V
R7E5 10k
R7E9 10k
R7A5 10k
R7A4 10k
L7D3 2.3μH
RN8A1 15K
L7C3 1μH
L7C2 1μH
IC7A1
ISP1122NB
USB CONTROLLER
+3.3V
L7C1 2.3μH
L7E4 2.3μH
L7B1 1μH
L7C9 1μH
P2
M2
L7C8 1μH
L7C7 1μH
P1
M1
C7C5 220 10V
L7C4 3T
C7A2 220 10V
R7B4 1M
R7B3 1M
R7C8 3.3k
R7C9 JW
R7H1 3.3k
C7B1 22p
X7A1 6MHz
C7B2 22p
C7B3 3.3
R7A1 100k
L7D5 2.3μH
D7A1 MTZJ5.1A
R7D4 1M
R7A2 100k
IC7A3
MIC2526
POWER DISTRIBUTION SWITCH
ENA
OUTA
FLGA
IN
FLGB
GND
ENB
OUTB
USB+5V
R7E7 10k
R7E6 10k
R7D7 10k
R7D6 10k
IC7A4
MIC2526
POWER DISTRIBUTION SWITCH
R7E2 1k
R7E1 1k
C7C4 0.1
C7C3 0.1
RN8A2 15K
L7C5 2.3μH
L7C6 2.3μH
MAIN GND
L7E3 2.3μH
USB GND
M4
P4

P8D1
8P

1	V2
2	V1
3	P2
4	M2
5	P1
6	M1
7	D GND
8	NC

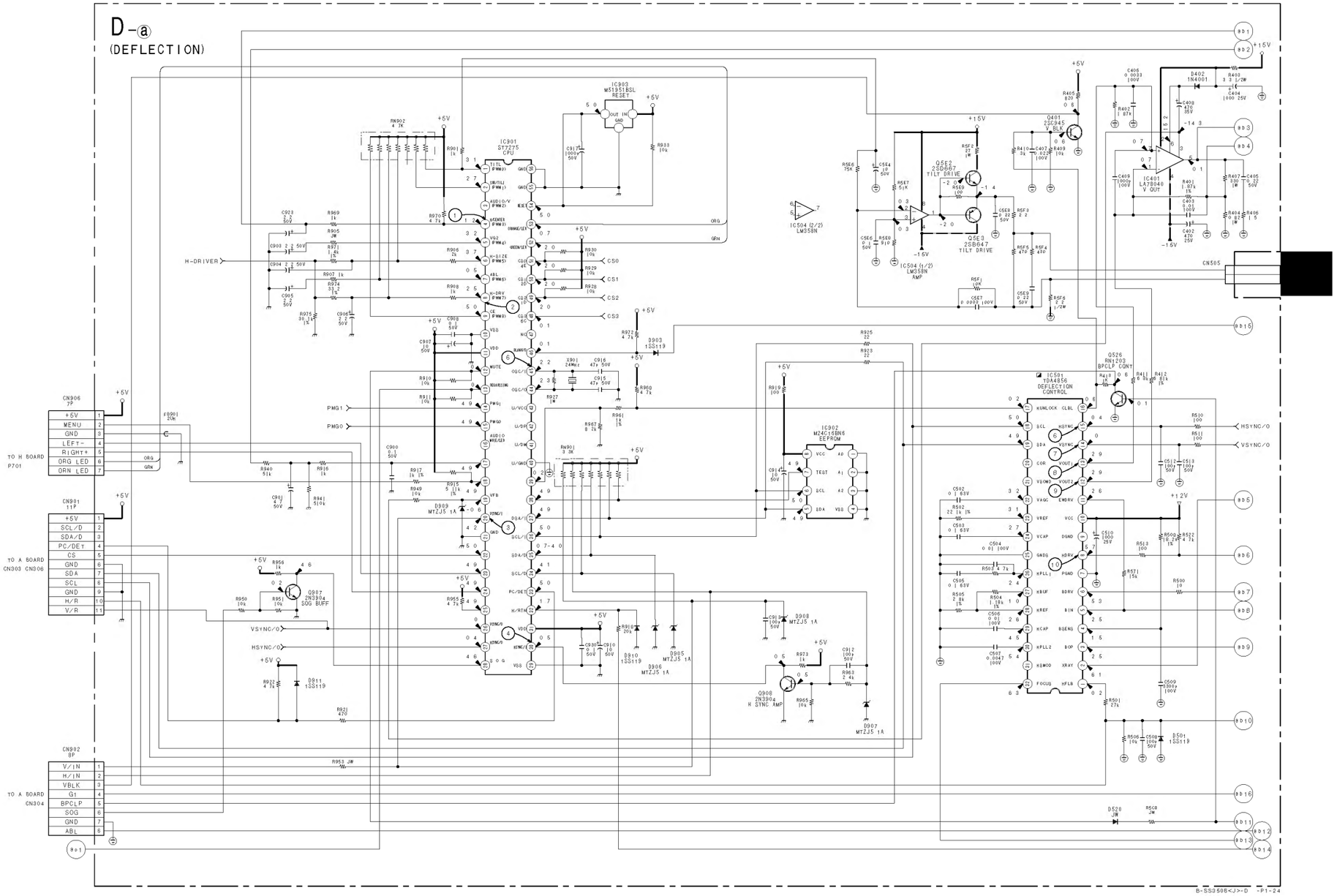
TO U1 BOARD P7D1

P8D2
7P

1	P3
2	M3
3	D GND
4	V4
5	V3
6	M4
7	P4

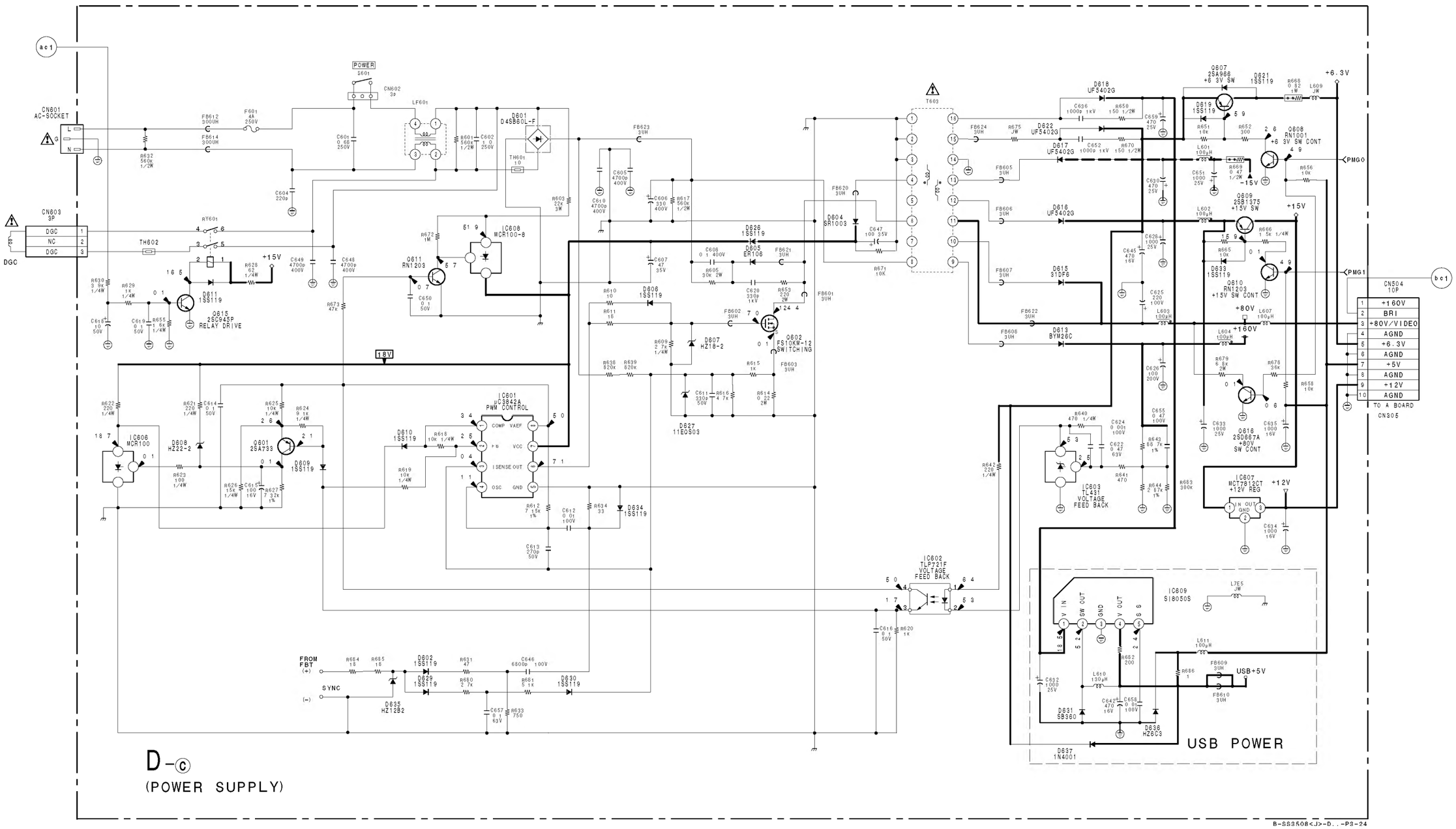
TO U2 BOARD P7D2

(3) Schematic Diagram of D (ⓐ-ⓒ) / D (USB) Boards

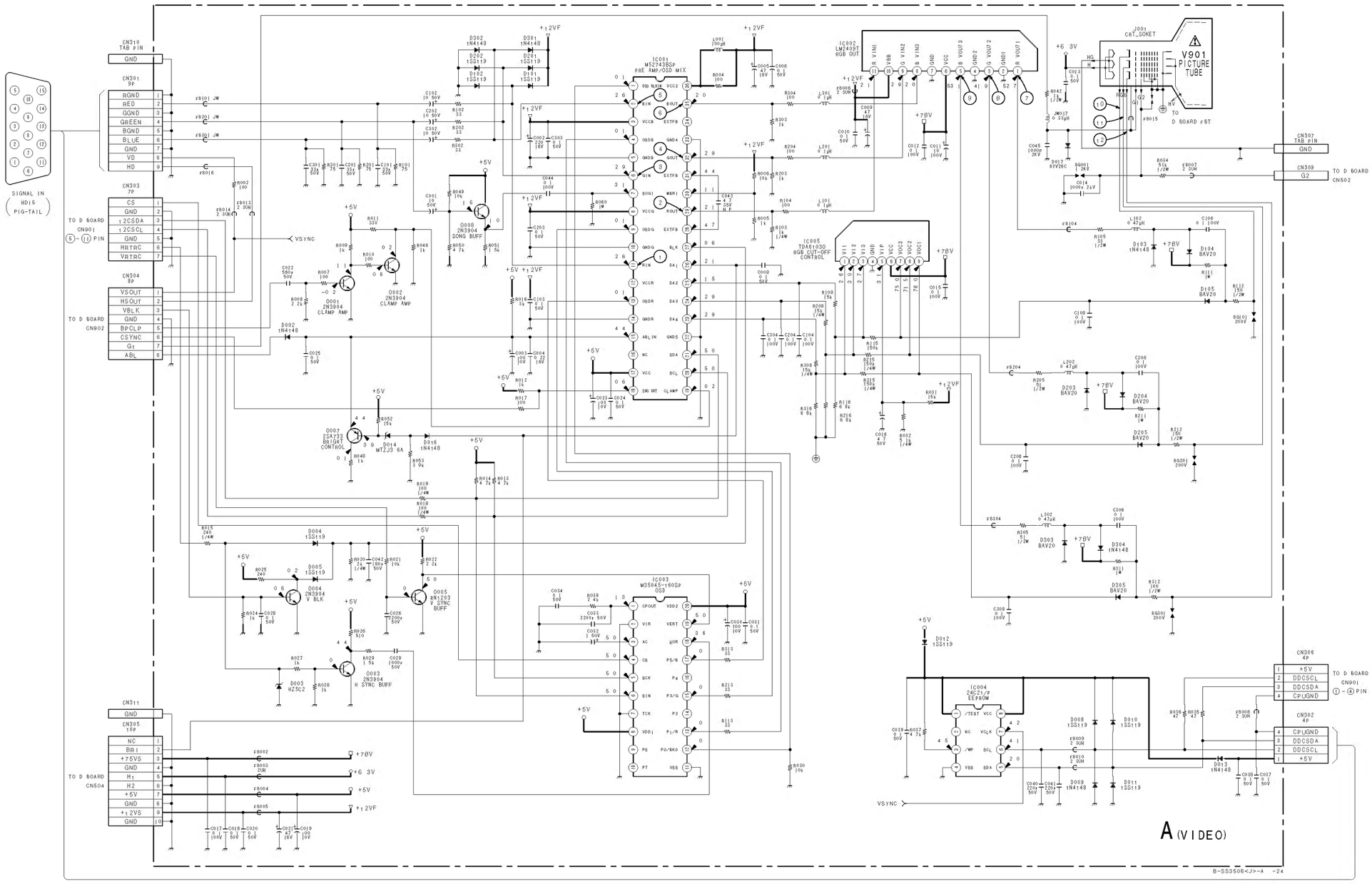


D-ⓑ
(DEFLECTION)

V DY+
V DY-
+12V
+160V
+80V
+5V
H-DRIVER
ABL
HV ADJ
CS0
CS1
CS2
CS3
H DY
V DY
to FBT (-160V)
to A BOARD CN309
H V
to PICTURE TUBE
CN501 6P
6 V DY+
5 V DY-
4 H DY-
3 H DY-
2 H DY+
1 H DY+
D501 2SJ307 SWITCHING
D502 MTZJ15B
D503 ER30₄
D504 1SS119
D505 2SC5387 H OUT
D506 1SS119
D507 SB140
D508 DD5₄RC
D509 MTZJ9.1C
D510 MTZJ5.1A
D511 PS10₄R
D512 PS10₄R
D513 BYV26C
D514 PS10₄R
D515 1SS119
D516 1SS119
D517 1SS119
D518 1SS119
D519 PS10₄R
D521 PS10₄R
D522 PG10₄R
D526 PS10₄R
D527 1SS119
D530 1SS119
D531 RGP10M
D592 1SS119
IC501 (1/2) LM393N
IC502 (1/2) LM393N
IC503 (1/2) LM358N
IC503 (2/2) LM393N
IC503 (1/2) LM358N
Q501 2SJ307 SWITCHING
Q502 FS10KM-6 H DRIVE OUT
Q503 2SC5387 H OUT
Q504 FS7KM-16A EHT GENERATOR
Q505 2SC945 S-CAP CHANGE
Q506 IRF634A S-CAP CHANGE
Q507 IRF634A S-CAP CHANGE
Q508 2SC945 S-CAP CHANGE
Q509 2SC945 S-CAP CHANGE
Q510 2SA733
Q511 2SA733 HV REG OUT
Q512 RN1203 BOP CONT
Q513 2SA733 BOP CONT
Q514 RN1203 SW
Q515 2SC945 B DRIVE
Q516 2SA733 B DRIVE
Q517 2SD669A H CENT DRIVE
Q518 2SB649A H CENT DRIVE
Q519 2SC2688 H CENT
Q520 2SC945 H DRIVE
Q521 2SA733 H DRIVE
Q522 2SD1840 H DRIVE
Q523 2SC3209 H DRIVE
Q524 IRF634A S-CAP CHANGE
Q530 2SC2688 DF AMP
Q531 KSP92
Q532 2SA733
Q533 2SA733 ABL CONT
T501 FBT
T502
T503
T504
ZD501 1M160Z



D-ⓒ

(POWER SUPPLY)

(2) Schematic Diagram of A Board